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(54) Title: PRODUCTION OF CANTHAXANTHIN BY PHAFFIA

(57) Abstract: Disclosed is a process for producing canthaxanthin and echinenone which comprises cultivating a recombinant microorganism which is expressing a β -carotene ketolase gene and belonging to the genus *Xanthophyllomyces* (Phaffia) in an aqueous nutrient medium under aerobic conditions, and isolating the resulted carotenoids from the cells of said recombinant microorganism or from the cultured broth.



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